

EAZY ASH CONTROL

Product Code:	1807	Packaging:	25L
Product Group:	Fuel Treatment	Issue/Date:	1.50 - 22/10/2007

eazy ASH Control is a unique blend of combustion catalysts, ash deposit modifiers and corrosion inhibitors. It has been specially formulated for use in engines, both medium and slow speed, where the presence of deposits in valves seats and turbocharger blades pose serious problems.

This product has been formulated to solve problems related to combustion as well as those caused by high vanadium oxides, sulphur and sodium salt contaminants in the fuel.

Product is miscible in fuel, does not react with any other substances and is not affected by fuel centrifugal separation.

Application and use

The benefits of using the product are:

- Prevents high temperature corrosion by increasing the sodium sulphate and vanadium pentoxide melting points from 675/880°C respectively to around 1100°C
- Minimises low temperature acid corrosion and reduces lube oil TBN (alkalinity) caused by the presence of sulphur (sulphuric acid)
- Improves combustion efficiency and reduces fuel combustion
- Reduces smoking and emissions
- Reduces engine wear
- Improves combustion considerably by reducing carbon deposits
- Promotes lower fuel consumption

Deposit Ash Modifier

Due to the presence of the deposit modifiers, these prevent high and low temperature corrosion in the high temperature surfaces such as valve seats and stems, thus prolonging the machinery parts life. This is achieved by raising the melting point of the vanadium compounds, by transforming the crystalline form of the ash making it light and friable so that it is easily exhausted.

By inhibiting the vanadium so that it cannot act as a catalyst in the oxidation process of SO₂ to SO₃, this reduces considerably the sulphuric acid formation and minimises low temperature corrosion.

There have been cases that show use of this product has resulted in appreciable reductions of sulphur trioxide by more than 70%.

Combustion Improver

The oil soluble organo-metallics that are present in the product, apart from enlarging the combustion area and being effective in a better fuel-oxygen mixing, achieve a rapid oxidation of carbon in the fuel thus improving combustion.

The combustion improver, together with the deposit modifier provides a synergistic effect and prevents the buildup of deposits.

Furthermore, the ignition energy required to complete the combustion is dropped and so less carbon deposits are formed.

Directions for use

Methods

Product can be introduced manually into the fuel tanks prior to or during bunkering. The fuel movement on entering the tank will blend the product with the fuel.

EAZY ASH CONTROL

Directions for use continued

It is preferable to introduce product by the use of a metering pump into the fuel line prior to the suction of the low pressure feed pump in order to achieve optimum mixing and ensure that product is fed continuously into the fuel. Depending on the engine design the dosing location may vary.

Dosage

The typical dosage rate for product is in the range of 1:1,000 liters to 1:8,000 liters of fuel. Rates vary depending on the engine design, operating conditions and contaminant level in the fuel.

The following table shows appropriate dosage rate:

Contaminant	Contaminant Level	Treatment Rate
Vanadium	Up to 150ppm	1/6000
	150-250ppm	1/4000
	250-350ppm	1/2000
	350ppm and over	1/1000
Sodium	Up to 15ppm	1/8000
	15-30ppm	1/6000
	30ppm and over	1/4000
Sulphur	Up to 1.5%	1/8000
	2.5 to 3.5%	1/2000
	3.5% and over	1/1000
Carbon Residue	Up to 10%	1/6000
	10% to 15%	1/4000
	15% to 18%	1/3000
	18% and over	1/2000

Health and Safety

Please refer to the Material Safety Data Sheet and Product Label for specific information.

Limitation of Liability

Eazychem's standard **terms and conditions** of sale, available on request, apply and contain limitations on any liability that may be incurred by Eazychem arising in any way from the sale and use of products supplied by Eazychem.